

WHAT IS CLAIMED IS:

1. An oxide superconductor thick film containing Bi, Pb, Sr, Ca, and Cu and substantially having a composition of $(\text{Bi, Pb})_{2+a}\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_z$ (Note: $0 < a < 0.5$) to be formed on a surface of a substrate or a base, wherein
5 no fracture surface exists in the vicinity of an interface between said substrate or said base and said oxide superconductor thick film in said oxide superconductor thick film.
- 10 2. A method for manufacturing an oxide superconductor thick film in such a manner that an oxide superconductor thick film containing Bi, Pb, Sr, Ca and Cu is formed on a surface of a substrate or a base, comprising,
forming a first thick film substantially having a composition of $\text{Bi}_2\text{Sr}_2\text{Ca}_1\text{Cu}_2\text{O}_z$ on the surface of said substrate or said base, and thereafter,
15 forming an oxide superconductor thick film substantially having a composition of $(\text{Bi, Pb})_{2+a}\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_z$ (Note: $0 < a < 0.5$) on said first thick film.